



1-2 Additional Practice

Solving Linear Equations

Solve each equation.

1. $4m - 5 = 11$

2. $-3d + 10 = 43$

3. $\frac{2(r-3)}{4} - 8 = 50$

4. $5h - 13 = 12$

5. $-8 = 3y - 2$

6. $8(n + 2) = 24$

7. $-\frac{2}{3}y - \frac{3}{4} = 5$

8. $\frac{p}{4} + 6 = 8$

9. $-3 = -3(2t - 1)$

10. $x - 2(x + 10) = 12$

11. $-15 = 5(3q - 10) - 5q$

12. $-5(x - 3) = -25$

For Items 13–16, write and solve a linear equation to match each situation.

13. The sum of three consecutive integers is 78. What are the three integers?
14. Darren wins a coupon for \$4 off the lunch special for each of 5 days. He pays \$75 for his 5 lunch specials. Write and solve an equation to find the original price p for one lunch special.
15. Olivia ate at the same restaurant four times. Each visit she ordered a salad and left a \$1.50 tip. She spent a total of \$54. Find the cost c of each salad.
16. Casey buys sandwiches and bags of chips. Each sandwich costs three times as much as a bag of chips. She bought 5 sandwiches for \$6 each and spent \$42. How many bags b did she buy?
17. Renaldo catches the bus at 4:00 P.M. to ride 3.2 miles from his house to the dentist's office. He arrives at 4:30 P.M., for a one-hour appointment. Then he will ride a bus traveling at the same rate of speed for 4.8 miles to the soccer field. Will he be on time for his 6:30 P.M. soccer practice? Explain.
18. What property was used on $14k + 2(3k + 5) - 5 = 10$ to obtain $14k + 6k + 10 - 5 = 10$?